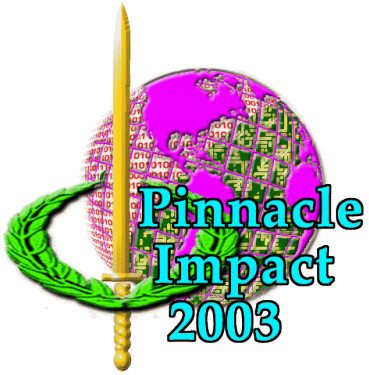
Naval Operating Concept Vignette 4 Response



Joint Fires and Maneuver

Element 1: NOC Contributions to JOpsC/MCO

- **Sea Strike**
  - **Increased combat power through increased weapons carrying capacity; precise, small diameter bombs; and higher target engagement rates.**
  - **Linked sensors to linked shooters provides immediate responsiveness.**
  - **Integrated IO/kinetic operations**
  - **Extended range Naval surface fire support (hypersonic missiles, advanced gun systems, long range projectiles, electromagnetic rail guns) and integrated Naval tactical fixed-wing aviation will support decisive maneuver.**
  - **Greatly increased operational tempo, reach and flexibility of Marine Forces enabled by advanced surface assault vehicles, air cushion landing craft and tilt rotor aircraft provide unprecedented OMFTS and STOM capabilities.**

Element 1: NOC Contributions to JOpsC/MCO

- **Sea Strike (cont)**
  - **Penetrating and persistent ISR through long dwell manned and unmanned stealthy sensors combined with correlation and fusion capabilities within the sensor network will enable precision targeting, in-flight retargeting and updates to weapons systems resulting in the achievement of focused effects from dispersed forces.**
  - **Fully netted digital fires network will enable Naval forces to move beyond sensor-to-shooter architectures to sensor-to-weapons architectures providing rapid engagement of both fixed and moving targets.**
  - **Advanced vertical and surface assault assets and techniques supported by netted, digital, over the horizon communications will enable MAGTFs to attack operational objectives.**

CTF: Maint C4ISR w/ coalition. Execute IW/IO plan.

CFMCC: Ensures sea control and initially isolates Red forces in Gray and Orange. Conduct anti-SSBN ops. Establish sea control to support operations. Employ forward deployed Marine Forces as an operational maneuver element to exploit Red vulnerability.

--A MEF (C2 for Gray) afloat supported by a Corps Combined AGTF ashore isolates and defeats Red offensive capability.

–Coalition Corps AGTF ICW Gray Coalition forces blocks and defeats Red penetration.

–Afloat MEF conducts STOM operations into flank / rear (beachhead) of Red forces in Gray to isolate and destroy force projection forces and sustainment capabilities.

–O/O MEF conducts STOM /Strike to destroy force projection / offensive capabilities in Red (opposing Orange/Gray).

CFLCC: Employ TBMD/AD to protect selected APOD / SPOD in Gray, Orange, Black, Tan to support flow of forces.

--Conducts operations within Tan and Orange to defeat and subsequently destroy Red offensive capability.

–Employs a Corps AGTF(C2 for Orange) ICW Orange to block, isolate, and destroy Red offensive capability.

–CFLCC is supported by CJMCC (MEB/ESG) conducting STOM to isolate and destroy Red.

CONOPs: CTF conducts operations to isolate and defeat attacking Red forces, destroy Red capabilities that enable Red control of the Straits of Gray, destroy Red capabilities that threaten the region, and re-establish regional security. A Maritime/Air Exclusion Zone and Preemptive Strike operations will be effected when Red has demonstrated that attack is imminent to limit Red attack options, maintain access, and ensure information dominance. Overall combat operations begin when Red forces initiate hostile military actions against Orange or Gray. These operations will be conducted in a simultaneous, parallel or distributed manner as required. We shall initially blind the enemy, blunt his attack, and isolate his offensive forces from support. Simultaneously we will neutralize and destroy forces / capabilities enabling Red's power projection and seek distributed maneuver opportunities to decisively defeat the attacking Red forces.

Element 3: Derived Capabilities

- **Persistent ISR – Netted, tiered (sea-bed to space) sensor architecture that is fully interoperable (enabled by FORCEnet) with joint and national sensors that provides long dwell, fused, tactical fidelity sensing in support of joint maneuver and strike.**
  - **Tiered architecture consisting of manned and unmanned platforms (redundant/graceful degradation)**
  - **Netted sensors with multi-spectral fusion and the capability to use the sensor grid for fire control.**
  - **Enhanced sensor capability including seismic, FOPEN, ground penetrating, MTI, acoustic, CBRN and ELINT/COMINT/SIGINT**
  - **Enhanced target ID via improved combat ID and tagging**
  - **Dynamic sensor management and access**

Element 3: Derived Capabilities (cont)

- **Time-sensitive strike – Combination of netted weapons/netted sensors, self-targeting capabilities and a digital fires networks provides the capability for the rapid application of the right weapon on the right target at the right time to achieve the desired effect.**
  - **Enhanced precision engagement control via in-flight target updates, dynamic sensor management and dynamic BDA and tactical assessment.**
  - **Enhanced 4D deconfliction via procedural, enhanced and automated deconfliction processes.**
  - **Robust automated target-weapon pairing criteria.**
  - **Flexible command and control of fires via hub & spoke and decentralized and distributed architectures.**
  - **Dynamic weapon apportionment and allocation enabled by total ordnance visibility and a netted force.**
  - **Automated force weapon inventory enabling dynamic resupply.**

Element 3: Derived Capabilities (cont)

- **Time-sensitive strike (cont)**
  - **Next generation PGMs & Weapons**
    - **Electric weapons (lasers, rail gun, directed RF/high voltage, etc.)**
    - **Hypersonic missiles**
    - **Loitering munitions and UCAVs**
    - **Space based**
- **Electronic warfare/information operations – Integrated EW/IO/Kinetic force application enabled by enhanced sensing, fusion capabilities, historical data and real time battlespace awareness.**

Element 3 – Derived Capabilities

- **Electronic warfare/information operations – Integrated EW/IO/Kinetic force application enabled by enhanced sensing, fusion capabilities, historical data and real time battlespace awareness.**
  - **Organizational and process changes to facilitate EW/IO integration**
  - **Non-lethal fires integration**
  - **Non-lethal weapons including CNA, EA, PSYOP, MILDEC, HPM, lasers**
  - **Integrated special technical operations**
  - **Computer network defense via visualization, fault tolerance, attach analysis, INFOCON and response**
  - **OPSEC**

Element 3 – Derived Capabilities

- **STOM – The combination of long range fires from a dynamic sea base, coupled with the rapid insertion of credible, sustained combat power ashore at extended ranges from the sea base provides the CJTF with a uniquely flexible force capable of providing a sustained force ashore or a rapidly relocatable and employable reserve/exploitation force.**
  - **Vertical and horizontal envelopment**
  - **Fully netted ground & maritime forces**
  - **Simultaneous Operations**
    - **Enhanced range of Naval fires**
    - **Enhanced operations tempo**
    - **Increased accuracy and precision**
    - **Effects based via target/weapons pairing algorithms and effects decision aids (ONA like capability)**
    - **Full target spectrum capable (HDBT, CBRN, moving, etc.)**
    - **Sea based**

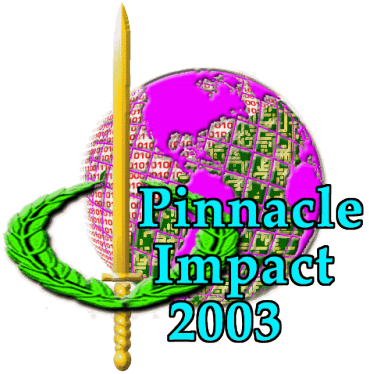
Element 3 – Derived Capabilities

- **Clandestine/Covert Strike – Combination of cruise missiles, stealthy platforms (SSGNs/ SSNs), penetrating and persistent ISR and special operations forces provide a significant anti-access/strike capability.**
  - **Platform/signature suppression**
  - **SOF**
    - **Netted sensors**
    - **Network C2**
    - **Enhanced mobility**
    - **Penetrating capability/advanced delivery methods**
    - **Human performance enhancements**
    - **Resupply/sustainability**
    - **Non-trackable/non-traceable operations**
  - **Submarine Based Strike**
    - **ISR**
    - **Fires**
    - **SOF**
    - **C2**

Element 3 – Derived Capabilities

- **FORCEnet Attributes**
  - **Expeditionary Joint & Combined Multi-tiered, multi-level security sensor and weapons grids**
    - **Access and leverage national, theater, Service and coalition intelligence through a comprehensive ISR network.**
    - **Tactical sensors need to be stealthy, low cost, and easily deployed.**
  - **Distributed, collaborative C2**
  - **Dynamic, multi-path and survivable networks**
  - **Adaptive/automated decision aids**
  - **Human-centric integration**
  - **Information Assurance**
  - **Capability for detailed maritime IPB**
  - **Deployable beyond line of sight communications with no ground infrastructure**

Questions/Discussion



Element 4: Strategic Level

- **Q1) How do we plan prepare and execute global strike operations that are coordinated with in theater operations?**
  - Distributed collaborative planning via the collaborative information environment to facilitate coordination throughout the battlespace and levels of war. CROP facilitates preparation, synchronization and deconfliction. CJTF liaisons with functional components to provide integrated mission tasking to facilitate coordinated, integrated, joint tactical actions.
- **Q2) How do we plan prepare and execute coordinated global strike operations in multiple combatant command areas simultaneously?**
  - RCC as supported commander and STRATCOM supporting commander
- **Q3) How do we coordinate global strike operations with U.S. and multi-national tactical and special operations.**
- **Q4) How do we plan, prepare and execute coordinated global strike operations at a sustained rate?**
  - Global to tactical compression of the battlespace.
  - Naval forces provide forward deployed, high Op Tempo strike capability

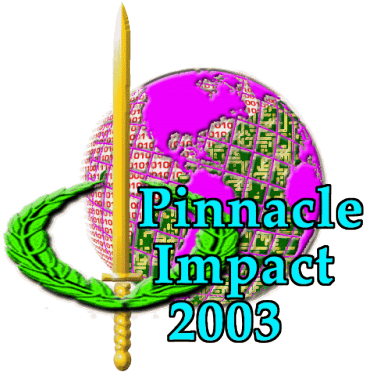
Element 4 (Cont)

- **Operational Level: How can we coordinate mission changes with service, interagency and multinational assets to respond to changing situations?**
  - JIACG
  - Distributed collaborative information environment
  - Multi-level security
  - National policies/ROE
  - Coalition organization C2 relationships that allow rapid mission changes
- **Tactical Level: How do we use the capabilities of any Service, agency, or multinational power at the point of action?**
  - Assign multi-national capabilities to a component commander
  - Joint/combined, inter-agency training emphasized
  - Common open architecture and standards

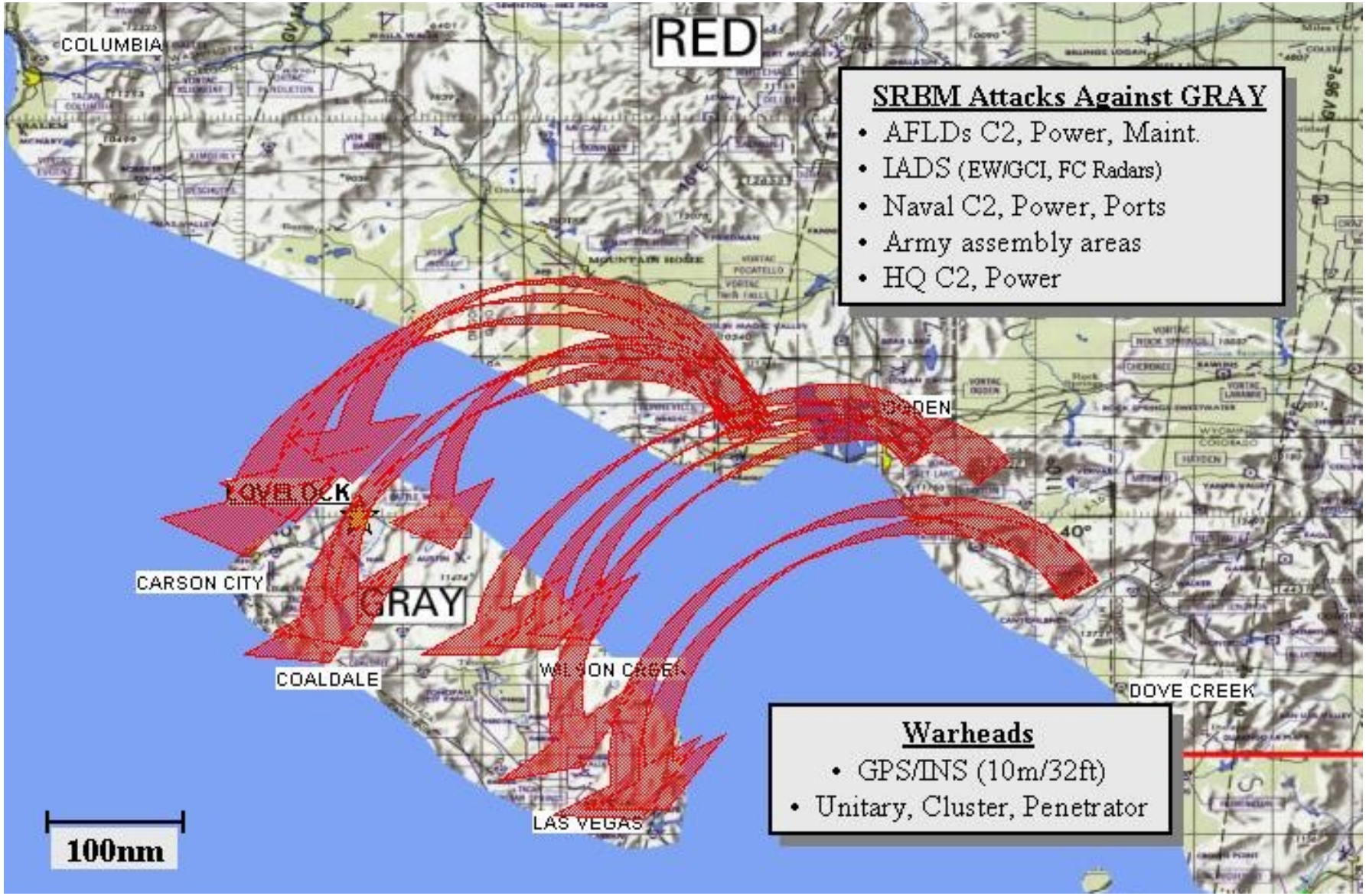
Element 5: Recommendations to Modify JOPSC / MCO JOC

- **ID standards and levels for national and tactical ISR sensor grid integration.**
- **ID standards for joint sea basing.**
- **Integration of Naval/joint/combined strike capability with global strike capability and deconfliction thereof**

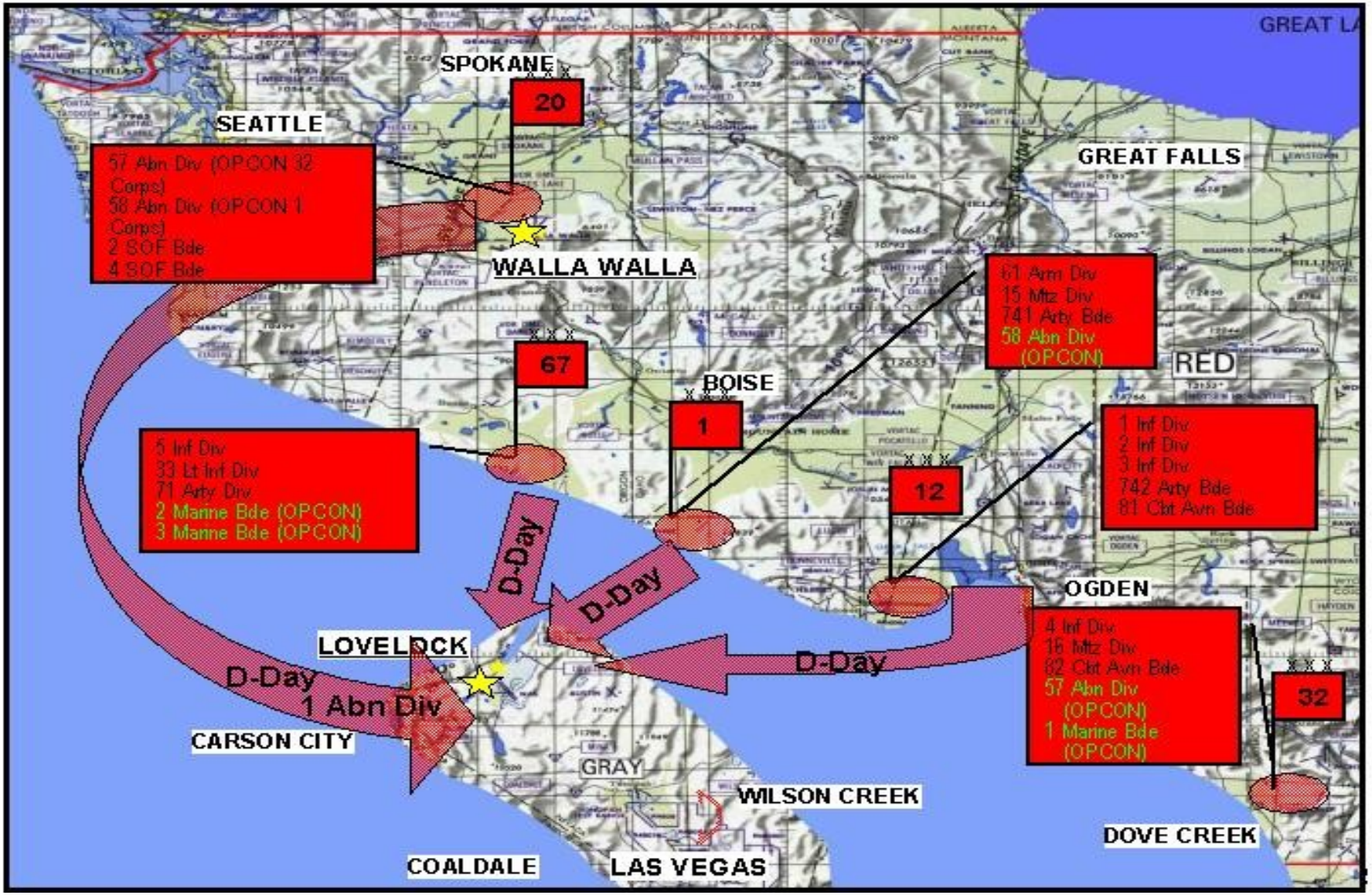
Questions/Discussion



RED SRBM Attack Plan



Red Airborne/Amphibious Assault Plan



Ground Situation on Gray (D+3)